

SEQUENCE LISTING

<110> Van Raaij, Mark
 Cusack, Stephen
 <120> Modified Adenoviral Fibre and Uses Thereof
 <130> 017753-143
 <140> US 09/830,391
 <141> 2001-04-26
 <150> PCT/FR00/02377
 <151> 2000-08-25
 <150> FR 99/10859
 <151> 1999-08-27
 <160> 28
 <170> PatentIn version 3.0
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 <211> 581
 <212> PRT
 <213> Mastadenovirus 5 Ad5 fiber
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 <223> Position on the map: 31063 to 33120 of the Ad5 genome.
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 Met Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro
 1 5 10 15
 Tyr Asp Thr Glu Thr Gly Pro Pro Thr Val Pro Phe Leu Thr Pro Pro
 20 25 30
 Phe Val Ser Pro Asn Gly Phe Gln Glu Ser Pro Pro Gly Val Leu Ser
 35 40 45
 Leu Arg Leu Ser Glu Pro Leu Val Thr Ser Asn Gly Met Leu Ala Leu
 50 55 60
 Lys Met Gly Asn Gly Leu Ser Leu Asp Glu Ala Gly Asn Leu Thr Ser
 65 70 75 80
 Gln Asn Val Thr Thr Val Ser Pro Pro Leu Lys Lys Thr Lys Ser Asn
 85 90 95
 Ile Asn Leu Glu Ile Ser Ala Pro Leu Thr Val Thr Ser Glu Ala Leu
 100 105 110
 Thr Val Ala Ala Ala Ala Pro Leu Met Val Ala Gly Asn Thr Leu Thr
 115 120 125

Met Gln Ser Gln Ala Pro Leu Thr Val His Asp Ser Lys Leu Ser Ile
 130 135 140
 Ala Thr Gln Gly Pro Leu Thr Val Ser Glu Gly Lys Leu Ala Leu Gln
 145 150 155 160
 Thr Ser Gly Pro Leu Thr Thr Thr Asp Ser Ser Thr Leu Thr Ile Thr
 165 170 175
 Ala Ser Pro Pro Leu Thr Thr Ala Thr Gly Ser Leu Gly Ile Asp Leu
 180 185 190
 Lys Glu Pro Ile Tyr Thr Gln Asn Gly Lys Leu Gly Leu Lys Tyr Gly
 195 200 205
 Ala Pro Leu His Val Thr Asp Asp Leu Asn Thr Leu Thr Val Ala Thr
 210 215 220
 Gly Pro Gly Val Thr Ile Asn Asn Thr Ser Leu Gln Thr Lys Val Thr
 225 230 235 240
 Gly Ala Leu Gly Phe Asp Ser Gln Gly Asn Met Gln Leu Asn Val Ala
 245 250 255
 Gly Gly Leu Arg Ile Asp Ser Gln Asn Arg Arg Leu Ile Leu Asp Val
 260 265 270
 Ser Tyr Pro Phe Asn Ala Gln Asn Gln Leu Asn Leu Arg Leu Gly Gln
 275 280 285
 Gly Pro Leu Phe Ile Asn Ser Ala His Asn Leu Asp Ile Asn Tyr Asn
 290 295 300
 Lys Gly Leu Tyr Leu Phe Thr Ala Ser Asn Asn Ser Lys Lys Leu Glu
 305 310 315 320
 Val Asn Leu Ser Thr Ala Lys Gly Leu Met Phe Asn Ala Thr Ala Ile
 325 330 335
 Ala Ile Asn Ala Gly Asp Gly Leu Glu Phe Gly Ser Pro Asn Ala Pro
 340 345 350
 Asn Thr Asn Pro Leu Lys Thr Lys Ile Gly His Gly Leu Glu Phe Asp
 355 360 365
 Ser Asn Lys Ala Met Val Pro Lys Leu Gly Thr Gly Leu Ser Phe Asp
 370 375 380
 Ser Thr Gly Ala Ile Thr Val Gly Asn Lys Asn Asn Asp Lys Leu Thr
 385 390 395 400
 Leu Trp Thr Thr Pro Ala Pro Ser Pro Asn Cys Arg Leu Asn Ala Glu
 405 410 415
 Lys Asp Ala Lys Leu Thr Leu Val Leu Thr Lys Cys Gly Ser Gln Ile
 420 425 430

Leu Ala Thr Val Ser Val Leu Ala Val Lys Gly Ser Leu Ala Pro Ile
435 440 445

Ser Gly Thr Val Gln Ser Ala His Leu Ile Ile Arg Phe Asp Glu Asn
450 455 460

Gly Val Leu Leu Asn Asn Ser Phe Leu Asp Pro Glu Tyr Trp Asn Phe
465 470 475 480

Arg Asn Gly Asp Leu Thr Glu Gly Thr Ala Tyr Thr Asn Ala Val Gly
485 490 495

Phe Met Pro Asn Leu Ser Ala Tyr Pro Lys Ser His Gly Lys Thr Ala
500 505 510

Lys Ser Asn Ile Val Ser Gln Val Tyr Leu Asn Gly Asp Lys Thr Lys
515 520 525

Pro Val Thr Leu Thr Ile Thr Leu Asn Gly Thr Gln Glu Thr Gly Asp
530 535 540

Thr Thr Pro Ser Ala Tyr Ser Met Ser Phe Ser Trp Asp Trp Ser Gly
545 550 555 560

His Asn Tyr Ile Asn Glu Ile Phe Ala Thr Ser Ser Tyr Thr Phe Ser
565 570 575

Tyr Ile Ala Gln Glu
580

<210> 2
<211> 60
<212> DNA
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<220>
<223> Primer. Synthetic oligonucleotide oTG7000 (codes for
PSASASASAPGS)

<400> 2
aacgattctt tagctgccgg gagcagagggc ggaggcggag gcgctgggtt cttgggcaat 60

<210> 3
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer. Synthetic oligonucleotide oTG7001 (codes for GRP).

<400> 3
aacgattctt tacatcaggt ggccacagc ccagtgggtt ccgctgccgg gagcaga 57

<210> 4
<211> 20
<212> DNA
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<220>
<223> Primer. Synthetic oligonucleotide oTG10776.

<400> 4
ccttccacgg gaagattgta

20

<210> 5
<211> 20
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<220>
<223> Primer. Synthetic oligonucleotide oTG10781.

<400> 5
ggggtgtctg tcttcacact

20

<210> 6
<211> 26
<212> DNA
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<220>
<223> Primer. Synthetic oligonucleotide oTG11065.

<400> 6
gggaagcttg aggttaacct aagcac

26

<210> 7
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer. Synthetic oligonucleotide oTG11066.

<400> 7
gggtctagag ctgccgggag cagaggcg

28

<210> 8
<211> 29
<212> DNA
<213> Artificial Sequence

<220>

<223> Primer. Synthetic oligonucleotide oTG11067.

<400> 8
gggctcgagt tatgtttcaa cgtgtttat

29

<210> 9
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer. Synthetic oligonucleotide oTG11068.

<400> 9
gtgcccgggg agtttattaa tatc

24

<210> 10
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer. Synthetic oligonucleotide oTG11069 (EGF cloning)
derived from Homo sapiens.

<400> 10
gcgtctagaa atagtgactc tgaatgtccc c

31

<210> 11
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer. Synthetic oligonucleotide oTG11070 (EGF cloning)
derived from Homo sapiens.

<400> 11
gcgctcgagc acaaacgatt ctttagcgca gttcccacca cttcag

46

<210> 12
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer. Synthetic oligonucleotide oTG11992.

<400> 12
cataacacaa acgattcttt atgttcgtgt tgggtggttct cgagcgcaat agctgccggg
agcagaggcg ga

60

72

<210> 13
 <211> 57
 <212> DNA
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<220>

<223> Primer. Synthetic oligonucleotide oTG11991.

<400> 13
 cataacacaa acgattcttt aatatacgtc tagatagctg ccgggagcag aggcgga

57

<210> 14
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Primer. Synthetic oligonucleotide oTG12499 derived from Mastadenovirus.

<400> 14
 gcatttagtc tacagttagg ctctggagct ggtgtggtcc ac

42

<210> 15
 <211> 39
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Primer. Synthetic oligonucleotide oTG12498 derived from Mastadenovirus.

<400> 15
 gtctacagtt aggagatggc tttggtgtgg tccacaaag

39

<210> 16
 <211> 47
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Primer. Synthetic oligonucleotide oTG12740 derived from Mastadenovirus.

<400> 16
 ctacagttag gagatggagc gggcccggtc cacaaagtta gcttatc

47

<210> 17
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Primer. Synthetic oligonucleotide oTG 11102 (hexon cloning)
derived from Mastadenovirus.

<400> 17

cggttcatcc ctgtggaccg tga

23

<210> 18

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer. Synthetic oligonucleotide oTG11103 (hexon cloning)
derived from Mastadenovirus.

<400> 18

ggcctctaga gttgagaaaa attgcatttc cacttgac

38

<210> 19

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer. Synthetic oligonucleotide oTG11104 (hexon cloning)
derived from Mastadenovirus.

<400> 19

ggtattgtac agtgaagatg tag

23

<210> 20

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer. Synthetic oligonucleotide oTG11105 derived from
Mastadenovirus.

<400> 20

cgttggaagg actgtacttt agc

23

<210> 21

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer. Synthetic oligonucleotide oTG11106 (cDNA EGF cloning)
derived from Homo sapiens.

<400> 21

cgcgctctaga ggcgaatagt gactctgaat gtcccctg

38

<210> 22
 <211> 45
 <212> DNA
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<220>
 <223> Primer. Synthetic oligonucleotide oTG11107 (cDNA EGF cloning)
 derived from Homo sapiens.

<400> 22
 ccactgtaca ataccacttt agggcgagcagc tcccaccact tcagg

45

<210> 23
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer. Synthetic oligonucleotide oTG7171 (deletion of the
 fiber) derived from Mastadenovirus.

<400> 23
 atgggttaact tgcaccagtg c

21

<210> 24
 <211> 27
 <212> DNA
 <213> Artificial Sequence
 <220>

<223> Primer. Synthetic oligonucleotide oTG7275 (deletion of the
 fiber) derived from Mastadenovirus.

<400> 24
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27

<210> 25
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer. Synthetic oligonucleotide oTG7276 (deletion of the
 fiber) derived from Mastadenovirus.

<400> 25
 ccgctcgaga ctctccctt tgtatcc

27

<210> 26
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Primer. Synthetic oligonucleotide oTG7049 (deletion of the fiber) derived from Mastadenovirus.

<400> 26
 ctgcccggga gtttattaat

20

<210> 27
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Primer. Synthetic oligonucleotide oTG7416 (deletion of pleated sheet H) derived from Mastadenovirus.

<400> 27
 tgtttctgt gtaccgttgg atcctttagt tttgtctcgg tt

42

<210> 28
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Primer. Synthetic oligonucleotide oTG10352 (pleated sheet H5 to H3) derived from Mastadenovirus.

<400> 28
 tgtttctgt gtaccgttta gcatcacggt cacctcgaga ggtttagttt tgtctcggtt

60

taag

64